



Patent Case: IN01164K

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: Hosted, Jr., et al :

For: Isolation of Micromonospora Carbonacea
Var Africana pMLP1 Integrase and Use of :
Integrating Function for Site-Specific
Integration into Micromonospora Halophitiga :
And Micromonospora Carbonacea
Chromosome :

Examiner:

Group Art Unit: 1645

Serial No.: 09/855,340

Filed: May 15, 2001
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Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

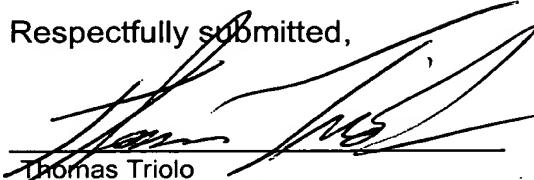
It is requested that the documents listed on the accompanying form PTO 1449, be considered and made of record in the above-identified application.

Applicant's submission of this Information Disclosure Statement (IDS) is not an admission that any reference cited herein qualifies as prior art.

The present IDS, and PTO 1449 form are submitted prior to receipt of a first office action, and so, no fee is enclosed.

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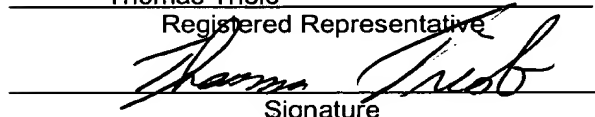
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on October 1, 2001

Thomas Triolo

Registered Representative



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Date of Signature

SCHERING-PLOUGH CORPORATION
Patent Department, K-6-1, 1990
2000 Galloping Hill Road
Kenilworth, New Jersey 07033-0530
Date: 10/1/01



FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: IN01164K		SERIAL NO.: 09/855,340	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT: Hosted, Jr., et al.			
				FILING DATE: May 15, 2001		GROUP: 1645	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AA	Alegre et al., Cloning of Frankia species putative tRNA(Pro) genes and their efficacy for pSAM2 site-specific integration in Streptomyces lividans, Appl Environ Microbiol, Vol. 60, No.12, pp. 4279-4283 (12/1994)					
	AB	Bar-Nir et al., tDNA(ser) sequences are involved in the excision of Streptomyces griseus plasmid pSG1, Gene., Vol. 122, pp. 71-76, (12/1992)					
	AC	Boccard et al., The integrated conjugative plasmid pSAM2 of Streptomyces ambofaciens is related to temperate bacteriophages, EMBO Journal, Vol. 8, No. 3, pp. 973-980 (1989)					
	AD	Boccard et al., Structural analysis of loci involved in pSAM2 site-specific integration in Streptomyces, Plasmid, Vol. 21, pp. 59-70 (1989)					
	AE	Brasch et al., Excisive recombination of the SLP1 element in Streptomyces lividans is mediated by Int and enhanced by Xis, Journal of Bacteriology, Vol. 175, No. 10, pp. 3075-3082 (05/1993)					
	AF	Brasch et al., Localization and nucleotide sequences of genes mediating site-specific recombination of the SLP1 element in Streptomyces lividans, Journal of Bacteriology, Vol. 175, No. 10, pp. 3067-3074 (05/1993)					
	AG	Brown et al., Characterization of the genetic elements required for site-specific integration of plasmid pSE211 in Saccharopolyspora erythraea, Journal of Bacteriology, Vol. 172, No. 4, pp. 1877-1888 (04/1990)					
	AH	Brown et al., Characterization of the genes and attachment sites for site-specific integration of plasmid pSE101 in Saccharopolyspora erythraea and Streptomyces lividans, Molecular Gen Genet., Vol. 242, pp. 185-193 (1994)					
	AI	Brown et al., Site-specific integration in Saccharopolyspora erythraea and multisite integration in Streptomyces lividans of actinomycete plasmid pSE101, Journal of Bacteriology, Vol. 170, No. 5, pp. 2287-2295 (05/1988)					
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	AK	Gabriel et al., The actinophage RP3 DNA integrates site-specifically into the putative tRNA(Arg)(AGG) gene of Streptomyces rimosus, Nucleic Acids Res., Vol. 23, No. 1, pp. 58-63 (1995)					
	AL	Hagege et al., Mode and origin of replication of pSAM2, a conjugative integrating element of Streptomyces ambofaciens, Molecular Microbiology, Vol. 10, No. 4, pp. 799-812 (1993)					
	AM	Hagege et al., Transfer functions of the conjugative integrating element pSAM2 from Streptomyces ambofaciens: Characterization of a kil-kor system associated with transfer, Journal of Bacteriology, Vol. 175, No. 17, pp. 5529-5538 (09/1993)					
	AN	Katz et al., Site-specific recombination in Escherichia coli between the att sites of plasmid pSE211 from Saccharopolyspora erythraea, Molecular Gen. Genet., Vol. 227, pp. 155-159 (1991)					
	AO	Kuhstoss et al., Plasmid cloning vectors that integrate site-specifically in Streptomyces spp., Gene., Vol. 97, pp. 143-146 (1991)					
	AP	Kuhstoss et al., Analysis of the integration function of the streptomycete bacteriophage phi C31, Journal of Molecular Biology, Vol. 222, pp. 897-908 (1991)					

	AQ	Kuhstoss et al., Site-specific integration in <i>Streptomyces ambofaciens</i> : Localization of integration functions in <i>S. ambofaciens</i> plasmid pSAM2, <i>Journal of Bacteriology</i> , Vol. 171, No. 1, pp. 16-23 (01/1989)
	AR	Lal et al., Development of an improved cloning vector and transformation system in <i>Amycolatopsis mediterranei</i> (<i>Nocardia mediterranei</i>), <i>Journal of Antibiot. (Tokyo)</i> , Vol. 51, No. 2, pp. 161-169 (1998)
	AS	Madon et al., Site-specific integration and excision of pMEA100 in <i>Nocardia mediterranei</i> , <i>Mol Gen Genet.</i> , Vol. 209, pp. 257-264 (1987)
	AT	Martin et al., Site-specific integration of the <i>Streptomyces</i> plasmid pSAM2 in <i>Mycobacterium smegmatis</i> , <i>Molecular Microbiology</i> , Vol. 5, No. 10, pp. 2499-2502 (1991)
	AU	Matshushima et al., A Gene Cloning System for ' <i>Streptomyces toyocaensis</i> ', <i>Microbiology</i> , Vol. 142, pp. 261-267 (1996)
	AV	Mazodier et al., The chromosomal integration site of the <i>Streptomyces</i> element pSAM2 overlaps a putative tRNA gene conserved among actinomycetes, <i>Mol Gen Genet.</i> , Vol. 222, pp. 431-434 (1990)
	AW	Moretti et al., Isolation and characterization of an extrachromosomal element from <i>Nocardia mediterranei</i> , <i>Plasmid</i> , Vol. 14, pp. 126-133 (1985)
	AX	Pernodet et al., Plasmids in different strains of <i>Streptomyces ambofaciens</i> : free and integrated form of plasmid pSAM2, <i>Mol. Gen. Genet.</i> , Vol. 198, pp. 35-41 (1984)
	AY	Raynal et al., Structure of the chromosomal insertion site for pSAM2: functional analysis in <i>Escherichia coli</i> , <i>Molecular Microbiology</i> , Vol. 28, No. 2, pp. 333-342 (1998)
	AZ	Seoane et al., Targets for pSAM2 integrase-mediated site specific integration in the <i>Mycobacterium smegmatis</i> chromosome, <i>Microbiology</i> , Vol. 143, pp. 3375-3380 (1997)
	BA	Sezonov et al., KorSA from the <i>Streptomyces</i> integrative element pSAM2 is a central transcriptional repressor: Target genes and binding sites, <i>Journal of Bacteriology</i> , Vol. 182, No. 5, pp. 1243-1250 (03/2000)
	BB	Sezonov et al., Characterization of <i>pra</i> , a gene for replication control in pSAM2, the integrating element of <i>Streptomyces ambofaciens</i> , <i>Molecular Microbiology</i> , Vol. 17, No. 3, pp. 533-544 (1995)
	BC	Simonet et al., Excision and integration of a self-transmissible replicon of <i>Streptomyces ambofaciens</i> , <i>Gene.</i> , Vol. 59, pp. 137-144 (1987)
	BD	Smokvina et al., Functional analysis of the <i>Streptomyces ambofaciens</i> element pSAM2, <i>Plasmid</i> , Vol. 25, pp. 40-52 (1991)
	BE	Smokvina et al., Construction of a series of pSAM2-based integrative vectors for use in actinomycetes, <i>Gene.</i> , Vol. 94, No. 1, pp. 53-59 (1990)
	BF	Sosio et al., Excision of pIJ408 from the chromosome of <i>Streptomyces glaucescens</i> and its transfer into <i>Streptomyces lividans</i> , <i>Mol Gen Genet.</i> , Vol. 218, pp. 169-176 (1989)
	BG	Thyagarajan et al., Site-specific genomic integration in mammalian cells mediated by phage phiC31 integrase, <i>Molecular and Cellular Biology</i> , Vol. 21, No. 12, pp. 3926-3934 (06/2001)
	BH	Vogtli et al., The chromosomal integration site for the <i>Streptomyces</i> plasmid SLP1 is a functional tRNA(Tyr) gene essential for cell viability, <i>Molecular Microbiology</i> , Vol. 6, No. 201, pp. 3041-3050 (1992)
	BI	Zhu et al., Amplification on the <i>Amycolatopsis</i> (<i>Nocardia</i>) <i>mediterranei</i> plasmid pMEA100: sequence similarities to actinomycete att sites, <i>Plasmid</i> , Vol. 24, pp. 132-142 (1990)

EXAMINER

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



1645

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/855,340	
	Filing Date	May 15, 2001	
	First Named Inventor	Hosted, Jr., et al.	
	Group Art Unit	1645	
	Examiner Name		
Total Number of Pages in This Submission	6	Attorney Docket Number	IN01164K

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